## INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/013561

A. CLASSIFIC	CATION OF SUBJECT MATTER 7 G01N27/409, G01N27/41, G01N27	7/30, H01M4/90	
According to Int	ternational Patent Classification (IPC) or to both nationa	l classification and IPC	
B. FIELDS SE	EARCHED	·	
Minimum docum	nentation searched (classification system followed by classification syste	assification symbols) 90, H01M8/02	
Jitsuyo Kokai J	searched other than minimum documentation to the exter Shinan Koho 1922–1996 To itsuyo Shinan Koho 1971–2004 Ji	roku Jitsuyo Shinan Koho tsuyo Shinan Toroku Koho	1994-2004
Electronic data b	pase consulted during the international search (name of different times)	lata base and, where practicable, search te	rms usea)
C. DOCUMEN	NTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.
X Y	JP 63-319050 A (Tanaka Kikin Kabushiki Kaisha), 27 December, 1988 (27.12.88), Claims; page 2, upper right of to 15; Fig. 1 Claims; page 2, upper right of to 15; Fig. 1 (Family: none)	column, lines 7	1-10 11-12
X .	<pre>JP 2003-317728 A (Ube Indust 07 November, 2003 (07.11.03), Claims; Par. Nos. [0022] to [ to 3   (Family: none)</pre>		1-10
X Further do	ocuments are listed in the continuation of Boy C	See patent family annex.	
Further documents are listed in the continuation of Box C.  * Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	
the priority of Date of the actua	al completion of the international search ober, 2004 (19.10.04)	"&" document member of the same pater.  Date of mailing of the international so  09 November, 2004	arch report
	ng address of the ISAV se Patent Office	Authorized officer	
Facsimile No. Form PCT/ISA/21	0 (second sheet) (January 2004)	Telephone No.	

INTERNATIONAL SEARCH REPORT		International application No. PCT/JP2O04/013561	
C (Continuation	). DOCUMENTS CONSIDERED TO BE RELEVANT		•
Category*	Citation of document, with indication, where appropriate, of the rele-	vant passages	Relevant to claim No.
Y .	<pre>JP 2003-282077 A (Furuya Metal Co., Ltd. 03 October, 2003 (03.10.03), Full text; Figs. 1 to 9 (Family: none)</pre>	.),	11-12
. P,A	<pre>JP 2004-103549 A (Takashi GOTO), 02 April, 2004 (02.04.04), Full text; all drawings (Family: none)</pre>	-	1-12
A	JP 2001-250563 A (Matsushita Electric Industrial Co., Ltd.), 14 September, 2001 (14.09.01), Full text; all drawings	·	1-12
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